

09/600848

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L7 and transgenic near plant\$	28

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L8

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DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=OR

<u>L8</u>	L7 and transgenic near plant\$	28	<u>L8</u>
<u>L7</u>	l6 and expression near3 vector\$	28	<u>L7</u>
<u>L6</u>	L5 and sunflower\$	47	<u>L6</u>
<u>L5</u>	(Class near I near LEA or LEA near I or D near 19 or late near embryogenesis near abundant)	4051	<u>L5</u>
<u>L4</u>	Hads10G1 or Ha near da10 near G1	0	<u>L4</u>
<u>L3</u>	L1 and purif\$ near5 product\$ near5 plant near tissue\$	3	<u>L3</u>
<u>L2</u>	L1 and purif\$ near5 product\$	990	<u>L2</u>
<u>L1</u>	plant\$ near5 expression near vector\$	3122	<u>L1</u>

END OF SEARCH HISTORY

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- 
- ☐ 1. 20020160378 . 24 Aug 01. 31 Oct 02. Stress-regulated genes of plants, transgenic plants containing same, and methods of use. Harper, Jeffrey F., et al. 435/6; C12Q001/68.
- 
- ☐ 2. 20020120958 . 03 May 02. 29 Aug 02. Branched fatty acid lubricating compositions. Duhot, Pierre, et al. 800/281; 435/193 A01H005/00 C12N009/10.
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- ☐ 3. 20020120957 . 03 May 02. 29 Aug 02. Method for producing branched fatty acids using genetically modified plants. Duhot, Pierre, et al. 800/281; 435/193 A01H005/00 C12N009/10.
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- ☐ 4. 6399861 . 23 May 95; 04 Jun 02. Methods and compositions for the production of stably transformed, fertile monocot plants and cells thereof. Anderson; Paul C., et al. 800/320.1; 800/275 800/288 800/293 800/301 800/302 800/303. A01H005/00 C12N005/04.
- 
- ☐ 5. 6395964 . 04 Aug 97; 28 May 02. Oral immunization with transgenic plants. Arntzen; Charles J., et al. 800/288; 424/186.1 424/257.1 424/261.1 435/320.1 435/419 435/468 435/69.3 800/287 800/298. C12N005/04 C12N015/82 C12N015/87 A01H005/00.
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- ☐ 6. 6329574 . 24 Jul 98; 11 Dec 01. High lysine fertile transgenic corn plants. Lundquist; Ronald C., et al. 800/300.1; 800/278 800/287 800/288 800/293 800/320.1. C12N015/00 A01H001/06 A01H004/00.
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- ☐ 7. 6326527 . 09 Dec 96; 04 Dec 01. Method for altering the nutritional content of plant seed. Kiriha; Julie A., et al. 800/278; 800/285 800/286 800/320.1. C12M015/00 C12M015/05 A01H005/00.
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- ☐ 8. 6262342 . 09 Jul 99; 17 Jul 01. DNA sequences encoding polypeptides having .beta.-1,3-glucanase activity. Meins, Jr.; Frederick, et al. 800/279; 435/200 435/209 435/320.1 435/419 536/23.6 800/278 800/301. C12N015/29 C12N015/56 C12N015/82 A01H005/00 A01H005/10.
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- ☐ 9. 6194560 . 12 Nov 98; 27 Feb 01. Oral immunization with transgenic plants. Arntzen; Charles J., et al. 536/23.7; 424/184.1 424/185.1 424/186.1 424/190.1 424/192.1 424/193.1 424/204.1 424/227.1 424/236.1 424/241.1 424/282.1 435/252.3 435/252.33 435/252.8 435/320.1 435/410 435/419 435/69.1 435/69.3 530/350 536/23.1 800/278 800/288 800/295. A61K039/108 C07H021/04 C07K014/245 C12N005/14.
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- ☐ 10. 6013863 . 21 Apr 97; 11 Jan 00. Fertile transgenic corn plants. Lundquist; Ronald C., et al. 800/293; 435/285.3 435/430 800/278 800/288 800/300. C12N015/00 C12N015/82 A01H001/06 A01H004/00.
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- ☐ 11. 5977441 . 22 Apr 98; 02 Nov 99. Control of plant gene expression. Oliver; Melvin John, et al. 800/298; 435/320.1 435/418 435/419 435/468 536/23.6 536/24.1 536/24.5 800/278 800/279 800/287 800/291 800/295 800/301 800/302. C12N015/29 C12N015/82 A01H004/00 A01H005/00 A01H005/10.
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- ☐ 12. 5942662 . 14 Nov 97; 24 Aug 99. Inducible herbicide resistance. Ryals; John A., et al. 800/300; 435/200 435/206 435/209 435/320.1 435/418 435/419 435/468 435/6 435/69.1 435/70.1 536/23.6 536/24.1 800/278 800/298. C12N015/29 C12N015/56 C12N015/82 A01H005/00.
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- ☐ 13. 5925808 . 19 Dec 97; 20 Jul 99. Control of plant gene expression. Oliver; Melvin John, et al. 800/298; 435/320.1 435/419 435/468 435/469 435/470 536/23.6 536/24.1 536/24.5 800/295.

C12N015/00 C12N015/29 C12N015/82 A01H004/00.

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☐ 14. 5880328 . 31 May 95; 09 Mar 99. DNA encoding plant chitinases. Ryals; John A., et al. 800/298; 435/200 435/209 435/320.1 435/418 435/419 435/69.1 536/23.2 536/23.6 800/301 800/302 800/317.3. A01H005/00 A01H005/10 C12N015/29 C12N015/56 C12N015/82.

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☐ 15. 5856154 . 31 May 95; 05 Jan 99. Method of protecting plants from oomycete pathogens. Ryals; John A., et al. 800/279; 435/418 435/419 435/69.1 536/23.6. C12N015/29 C12N015/82 C12N005/04 A01H005/00.

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☐ 16. 5851766 . 31 May 95; 22 Dec 98. Process for isolating chemically regulatable DNA sequences. Ryals; John A., et al. 435/6; 435/91.2. C12Q001/68 C12P019/34.

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☐ 17. 5847258 . 31 May 95; 08 Dec 98. DNA encoding .beta.-1,3-glucanases. Ryals; John A., et al. 800/301; 435/209 435/320.1 435/418 435/419 435/69.1 536/23.6 536/24.1 800/298. A01H005/00 A01H005/10 C12N015/29 C12N015/56 C12N015/82.

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☐ 18. 5837545 . 21 Jan 93; 17 Nov 98. Genes, polypeptides, and compositions for cold tolerance in plants. Guy; Charles L., et al. 435/419; 435/243 435/252.3 435/254.2 435/255.1 435/468 435/471 435/69.1 536/23.6 800/289. C07K014/415 C12N001/15 C12N015/29 C12N015/63.

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☐ 19. 5804693 . 31 May 95; 08 Sep 98. Chemically regulatable and anti-pathogenic DNA sequences and uses thereof. Gaffney; Thomas D., et al. 800/301; 424/9.2 435/29 435/419 800/298 800/300 800/302. A01H001/04 C12N005/00 C12N015/00.

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☐ 20. 5789214 . 31 May 95; 04 Aug 98. Method of inducing gene transcription in a plant. Ryals; John A., et al. 800/288; 435/418 435/419 536/23.6 536/24.1. C12N015/29 C12N015/82 C12N005/04 A01H005/00.

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☐ 21. 5777200 . 31 May 95; 07 Jul 98. Chemically regulatable and anti-pathogenic DNA sequences and uses thereof. Ryals; John A., et al. 435/6; 435/91.51. C12N015/00 C12Q001/68.

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☐ 22. 5767369 . 31 May 95; 16 Jun 98. DNA sequences encoding SAR8.2 proteins and uses thereof. Ryals; John A., et al. 800/279; 435/320.1 435/418 435/419 435/69.1 536/23.6 800/301. A01H005/00 C12N015/29 C12N015/82 C12N005/04.

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☐ 23. 5750385 . 07 Jun 95; 12 May 98. Methods and compositions for regulated transcription and expression of heterologous genes. Shewmaker; Christine K., et al. 800/288; 435/69.1 435/70.1 536/23.6 536/24.1 536/24.5. C12N015/29 C12N015/82 C12N015/84 A01H005/00.

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☐ 24. 5723765 . 07 Jun 95; 03 Mar 98. Control of plant gene expression. Oliver; Melvin John, et al. 800/268; 435/320.1 435/418 435/419 536/23.6 536/24.1 536/24.5 800/287 800/288 800/314. C12N015/29 C12N015/82 A01H004/00 A01H005/00.

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☐ 25. 5689044 . 24 May 95; 18 Nov 97. Chemically inducible promoter of a plant PR-1 gene. Ryals; John A., et al. 800/301; 435/320.1 435/418 435/419 536/23.6 536/24.1 800/300 800/302. A01H005/00 C12N005/04 C12N015/29 C12N015/82.

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☐ 26. 5654414 . 19 May 95; 05 Aug 97. Chemically inducible promoter of a cucumber chitinase/lysozyme gene. Ryals; John A., et al. 800/279; 435/200 435/206 435/320.1 435/69.1 536/23.6 800/317.3. C12N015/29 C12N015/56 C12N015/82 A01H005/00.

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☐ 27. 5650505 . 24 May 95; 22 Jul 97. Chemically regulatable and anti-pathogenic DNA sequences

and uses thereof. Ryals; John A., et al. 800/301; 435/320.1 435/418 435/419 435/69.1 530/370 530/379 536/23.6 536/24.5 800/317.3. C12N015/29 C12N015/82 A01H005/00.

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☐ 28. 5614395 . 13 Jan 94; 25 Mar 97. Chemically regulatable and anti-pathogenic DNA sequences and uses thereof. Ryals; John A., et al. 435/6; 435/4 435/468 435/69.1 536/24.1 800/279. C12N015/82 C12N015/29 C12N015/09.

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Terms	Documents
L7 and transgenic near plant\$	28

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**PALM INTRANET**

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set hi ;set hi
HILIGHT set on as ''
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? begin 5,6,55,154,155,156,312,399,biotech,biosci
>>>      135 is unauthorized
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Set	Items	Description
? s	Hads10G1 or Ha (n) ds10 (n) G1	
	1	HADS10G1
	469843	HA
	95	DS10
	135135	G1
	9	HA(N)DS10(N)G1
S1	9	HADS10G1 OR HA (N) DS10 (N) G1

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...completed examining records  
S2 2 RD S1 (unique items)

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Display 2/9/1 (Item 1 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
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11973700 BIOSIS NO.: 199900227013  
Seed-specific expression patterns and regulation by ABI3 of an unusual late  
embryogenesis-abundant gene in sunflower.  
AUTHOR: Prieto-Dapena Pilar; Almoguera Concepcion; Rojas Anabel; Jordano  
Juan(a)  
AUTHOR ADDRESS: (a)Instituto de Recursos Naturales y Agrobiologia,  
C.S.I.C., 41080, Sevilla\*\*Spain  
JOURNAL: Plant Molecular Biology 39 (3):p615-627 Feb., 1999  
ISSN: 0167-4412  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English

ABSTRACT: We cloned the genomic sequences that correspond to a previously  
described group 1 late embryogenesis-abundant (Lea) cDNA from sunflower:

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**Ha ds10.** The **Ha ds10 G1** gene had structural  
and gene-expression features that depart from those of other group 1 Lea  
genes. An intron was present at a conserved position but showed a much  
larger size (1024 bp). Transcription from the **Ha ds10**  
**G1** promoter was strictly seed-specific and it originated from at  
least two close initiation sites. The mRNAs accumulated from stages of  
embryogenesis that preceded seed desiccation. **Ha ds10**  
**G1** mRNA accumulation was moderately induced, by exogenous abscisic  
acid treatments, in immature seeds but not induced in seedlings. We  
observed unprecedented changes in Lea mRNA localization associated with  
seed desiccation: the homogeneous tissue distribution of **Ha**  
**ds10 G1** mRNAs, which was characteristic of immature embryos,  
evolved later in embryogenesis to an asymmetric distribution within the  
cotyledons, with preferential mRNA accumulation in the cells of the  
palisade parenchyma and provascular bundles. We also showed that, in  
sunflower embryos, the **Ha ds10 G1** promoter could be  
transiently activated by the Arabidopsis ABI3 transcription factor. We

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discuss the significance of these results regarding hypotheses of regulation and function of plant genes from the same family.

REGISTRY NUMBERS: 21293-29-8: ABSCISIC ACID

DESCRIPTORS:

MAJOR CONCEPTS: Development; Molecular Genetics (Biochemistry and Molecular Biophysics)

BIOSYSTEMATIC NAMES: Compositae--Dicotyledones, Angiospermae, Spermatophyta, Plantae; Cruciferae--Dicotyledones, Angiospermae, Spermatophyta, Plantae

ORGANISMS: sunflower (Compositae); Arabidopsis (Cruciferae)

BIOSYSTEMATIC CLASSIFICATION (SUPER TAXA): Angiosperms; Dicots; Plants; Spermatophytes; Vascular Plants

CHEMICALS & BIOCHEMICALS: abscisic acid; late embryogenesis-abundant complementary DNA {Lea cDNA}; Arabidopsis AB13 transcription factor; sunflower **Ha ds10 G1** gene (Compositae)--expression, group 1 Lea gene, structure; sunflower **Ha ds10 G1**

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DIALOG(R)File 5:Biosis Previews(R)

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promoter gene (Compositae)--activation, seed specificity, transcription ; sunflower Lea 1 gene {group 1 late embryogenesis-abundant gene} (Compositae)--expression pattern, seed specificity, regulation

MOLECULAR SEQUENCE DATABANK NUMBER: AJ224116--DDBJ, EMBL, GenBank

MISCELLANEOUS TERMS: gene family member relationship

CONCEPT CODES:

03504 Genetics and Cytogenetics-Plant

10300 Replication, Transcription, Translation

51510 Plant Physiology, Biochemistry and Biophysics-Growth, Differentiation

51519 Plant Physiology, Biochemistry and Biophysics-Metabolism

BIOSYSTEMATIC CODES:

25840 Compositae

25880 Cruciferae

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DIALOG(R)File 357:Derwent Biotech Res.

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0244630 DBR Accession No.: 1999-12777 PATENT

New sunflower gene **Ha-ds10-G1** and its promoter and regulatory regions, used to drive seed-specific expression of chimeric genes - Agrobacterium tumefaciens-mediated plasmid pBI101.2-mediated bacterial beta-glucuronidase gene transfer and expression in tobacco transgenic plant used for oil, protein and pharmaceutical production

AUTHOR: Prieto-Dapena M P; Almoguera Antolinez M C; Jordano Fraga J B

CORPORATE SOURCE: Madrid, Spain.

PATENT ASSIGNEE: CSIC-Madrid 1999

PATENT NUMBER: WO 9937795 PATENT DATE: 19990729 WPI ACCESSION NO.: 1999-458700 (1938)

PRIORITY APPLIC. NO.: ES 122 APPLIC. DATE: 19980123

NATIONAL APPLIC. NO.: WO 99ES17 APPLIC. DATE: 19990123

LANGUAGE: Spanish

ABSTRACT: A sunflower (*Helianthus annuus*) gene **Ha-ds10-G1**

(3,617 bp), including its seed-specific promoter and regulatory

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Display 2/9/2 (Item 1 from file: 357)

DIALOG(R)File 357:Derwent Biotech Res.

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elements, is new. Also claimed are: genes containing the sunflower gene that are expressed specifically in seeds; expression cassettes, vectors and host cells; production of transgenic plants using the expression cassette; products produced by the transgenic plants; and seed or their parts or extracts containing the sunflower gene. The sunflower gene is used to drive seed-specific expression of chimeric genes specifically for production in transgenic plants, reserve materials, e.g. oils or proteins, also bioactive compounds such as antigenic or pharmaceutically active peptides. In an example, a 1,679 bp fragment of the gene was cloned into plasmid pBI101.2 to form ds10F1, a fusion of the fragment with the GUS (bacterial beta-glucuronidase (EC-3.2.1.31)) gene. A second fragment from the gene was inserted into ds10F1 to produce ds10F2. Agrobacterium tumefaciens LBA4044 was used to transfer ds10F2 to tobacco (Nicotiana tabacum) plants and the GUS gene was expressed in the transgenic plant. (42pp)

E.C. NUMBERS: 3.2.1.31

DESCRIPTORS: tobacco transgenic plant construction, plasmid

-more-

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Display 2/9/2 (Item 1 from file: 357)

DIALOG(R)File 357:Derwent Biotech Res.

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pBI101.2-mediated bacterium beta-glucuronidase gene transfer, expression, Agrobacterium tumefaciens, appl. oil, protein, pharmaceutical prep. Nicotiana tabacum oilseed Helianthus annuus enzyme EC-3.2.1.23 bacterium (Vol.18, No.22)

SECTION: AGRICULTURE-Plant Genetic Engineering; GENETIC ENGINEERING AND FERMENTATION-Nucleic Acid Technology (E2,A1)

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? s class (n) I (n) LEA or LEA (n) I or late (n) embryogenesis (n) abundant Processing

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Completed processing all files

1590746 CLASS

7152481 I

9678 LEA

8 CLASS(N) I(N) LEA

9678 LEA

7152481 I

79 LEA(N) I

1233250 LATE

154376 EMBRYOGENESIS

352433 ABUNDANT

1443 LATE(N) EMBRYOGENESIS(N) ABUNDANT

S3 1503 CLASS (N) I (N) LEA OR LEA (N) I OR LATE (N) EMBRYOGENESIS (N) ABUNDANT

? s s3 and sunflower?

1503 S3

91563 SUNFLOWER?

S4 35 S3 AND SUNFLOWER?

? s s4 and expression (n) vector?

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35 S4  
 5167301 EXPRESSION  
 1129202 VECTOR?  
 128588 EXPRESSION(N)VECTOR?  
 S5 0 S4 AND EXPRESSION (N) VECTOR?  
 ? e au=prieto-dapena, maria

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E2	0	*AU=PRIETO-DAPENA, MARIA
E3	1	AU=PRIETO-DAPENA, MARIA PILAR
E4	4	AU=PRIETO-DAPENA, P.
E5	2	AU=PRIETO-DAPENA, PILAR
E6	2	AU=PRIETO-DIAZ F M
E7	2	AU=PRIETO-DIAZ I
E8	20	AU=PRIETO-DIAZ J
E9	6	AU=PRIETO-DIAZ J.
E10	2	AU=PRIETO-DIAZ JULIO
E11	5	AU=PRIETO-DIAZ R
E12	1	AU=PRIETO-DIAZ S

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E1	0	*AU=PRIETO-DAPENA MARIA
E2	12	AU=PRIETO-DAPENA P
E3	3	AU=PRIETO-DAPENA P.
E4	6	AU=PRIETO-DAPENA PILAR
E5	1	AU=PRIETO-DAPENA, MARIA PILAR
E6	4	AU=PRIETO-DAPENA, P.
E7	2	AU=PRIETO-DAPENA, PILAR
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E9	2	AU=PRIETO-DIAZ I
E10	20	AU=PRIETO-DIAZ J
E11	6	AU=PRIETO-DIAZ J.
E12	2	AU=PRIETO-DIAZ JULIO

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 ? e au=prieto-dapena m.

Ref	Items	Index-term
E1	0	*AU=PRIETO-DAPENA M.
E2	12	AU=PRIETO-DAPENA P
E3	3	AU=PRIETO-DAPENA P.
E4	6	AU=PRIETO-DAPENA PILAR
E5	1	AU=PRIETO-DAPENA, MARIA PILAR
E6	4	AU=PRIETO-DAPENA, P.
E7	2	AU=PRIETO-DAPENA, PILAR
E8	2	AU=PRIETO-DIAZ F M
E9	2	AU=PRIETO-DIAZ I
E10	20	AU=PRIETO-DIAZ J
E11	6	AU=PRIETO-DIAZ J.
E12	2	AU=PRIETO-DIAZ JULIO

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